

PS-LX56/LX56P

SERVICE MANUAL

Ver 1.1 2001.07



PS-LX56/LX56P are the turntable section in LBT-A190/A195/A290/A290K/A295/A390/A390K/A395/A490/A490K/A495/D150/D250/D550/G1000/G2000.

PHOTO : PS-LX56

US Model
Canadian Model
PX Model
Tourist Model
PS-LX56
AEP Model
E Model
Australian Model
PS-LX56/LX56P
UK Model
PS-LX56P

SPECIFICATIONS

Turntable	(PS-LX56)	Turntable	(PS-LX56P)
Platter	30cm (12 in.)	Platter	30 cm
Motor	DC servo motor	Tone arm type	Dynamically balanced
Drive system	Belt drive	Cartridge type	Moving magnet type
Speed	33 1/3 rpm/45 rpm switchable	Stylus	Sony CN-234 (0.6 mil diamond)
Wow and flutter	0.2% (WRMS)	Mass	Approx. 2.3 kg (5 lb 1 oz)
Signal-to-noise ratio	60 dB (DIN-B)	Dimensions	Approx. 355 x 95 x 345 mm (14 x 3 3/4 x 13 5/8 inches) (w/h/d, including projections)
Automatic system	Return, reject		
Tonearm			
Type	Dynamically balanced		
Pivot-to-stylus length	203 mm (8 in.)		
Overall arm length	235 mm (9 1/4 in.)		
Cartridge			
Type	Moving magnet type		Design and specifications subject to change without notice.
Frequency response	20 Hz-20kHz		
Stylus	CN-234		
General			
Dimensions	355 x 94 x 345 mm(w/h/d) (14 x 3 3/4 x 13 5/8 inches)		
Weight	Approx. 2.5 kg (5 lb 8 oz)		
Power requirement	US and Canadian model : 120V AC, 60Hz European model : 220-230V AC, 50/60Hz Australian model : 240V AC, 50Hz Model for other countries : 110-120V/220-240V adjustable with the voltage selector AC, 50/60Hz		
Power consumption	2 W		
Accessory supplied	45-rpm adaptor (1)		
Optional accessories	Replacement stylus CN-234 Stat spray XP-C10 Cleaner XP-C1, XP-C2		

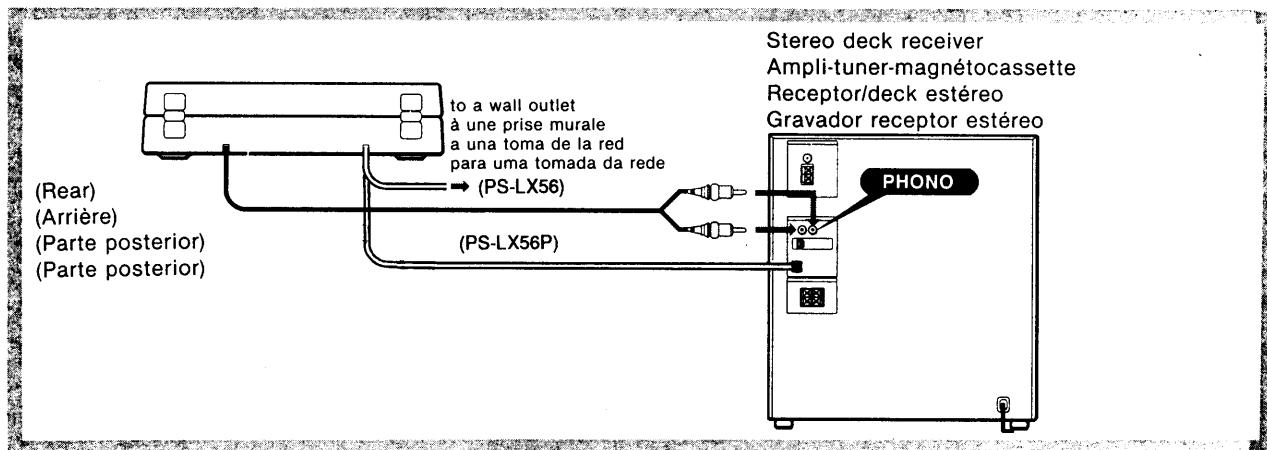
STEREO TURNTABLE SYSTEM

SONY®

Connections

Note

Connect the red plug to the right-channel jack (R), and the white plug to the left-channel jack (L).



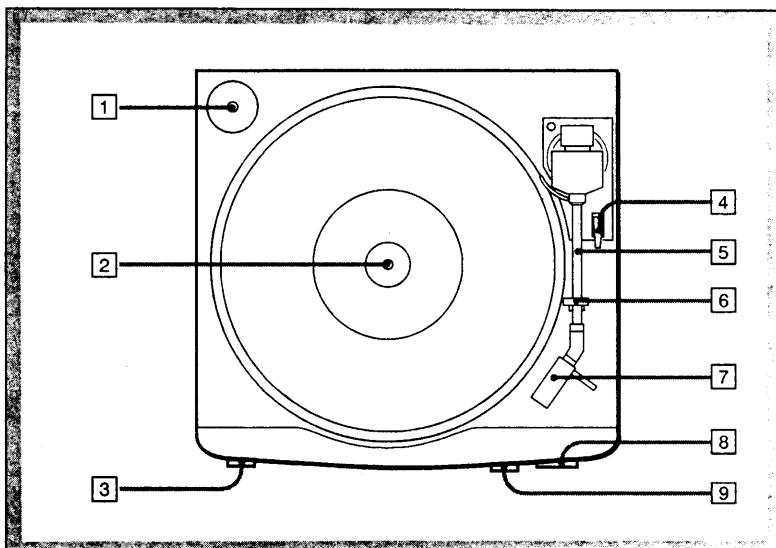
Notes on installation

- Place the turntable on a level surface.
- Avoid placing the unit near electrical appliances (such as a television, hair dryer, or fluorescent lamp) which may cause hum or noise.
- Place the turntable where it will not be subject to any vibration, such as from speakers, slamming of doors, etc.
- Keep the unit away from direct sunlight, extremes of temperature, and excessive dust and moisture.

To remove the dust cover A

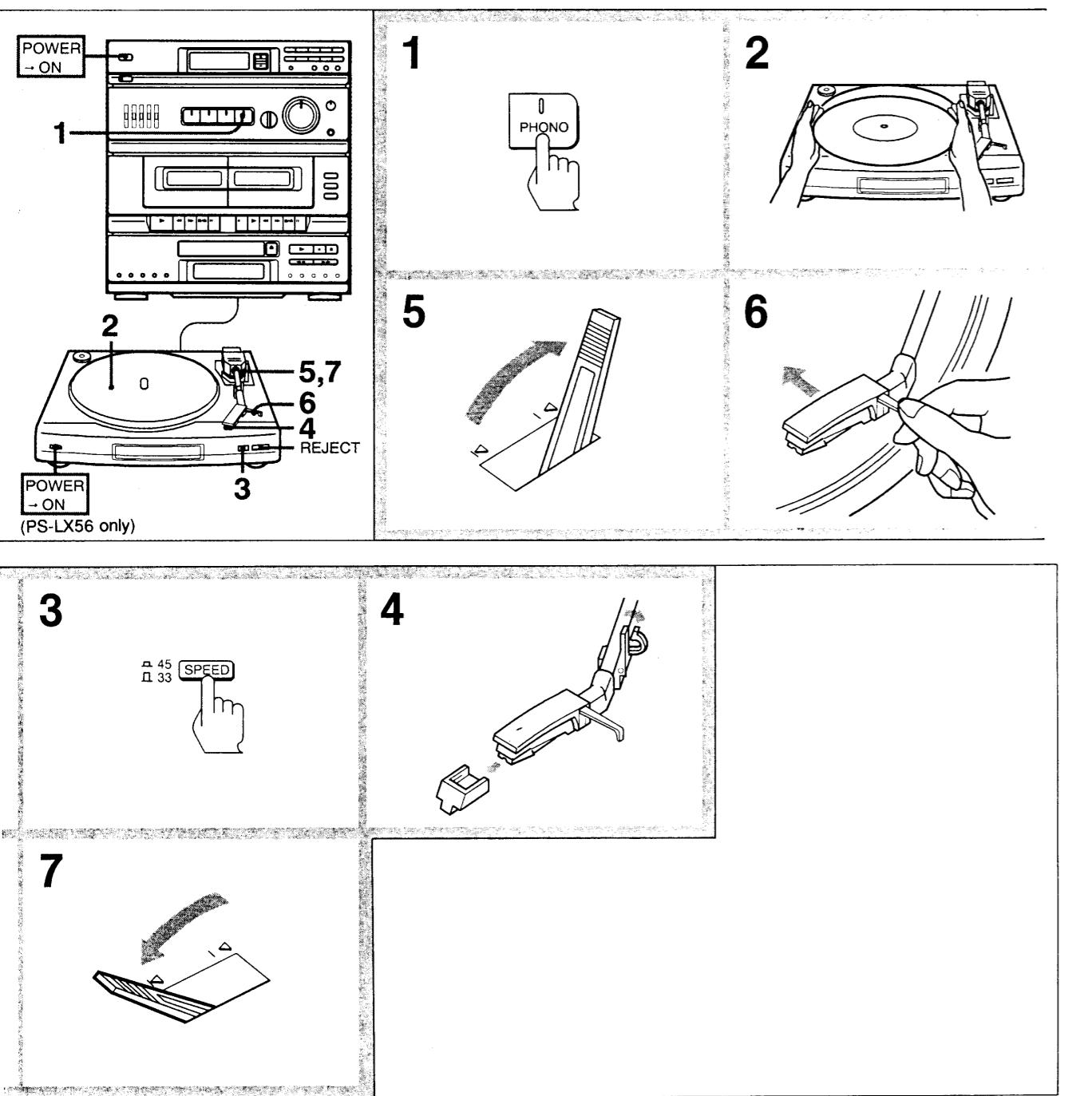
Open the cover fully and pull it up.

Location of Controls



- | | |
|---|------------------------|
| 1 | 45-rpm adaptor |
| 2 | Centre spindle |
| 3 | POWER switch (PS-LX56) |
| 4 | Cueing lever |
| 5 | Tonearm |
| 6 | Armrest |
| 7 | Cartridge |
| 8 | REJECT button |
| 9 | Speed selector |

Playing Records



When the record is played to the end, the tonearm returns to the armrest and the turntable stops.

To stop during play, press REJECT.

To play a different part of the record

Lift the tonearm by setting the cueing level to ▼, move the tonearm by hand to the desired point, then set the cueing lever to ▲.

To play a 17-cm record

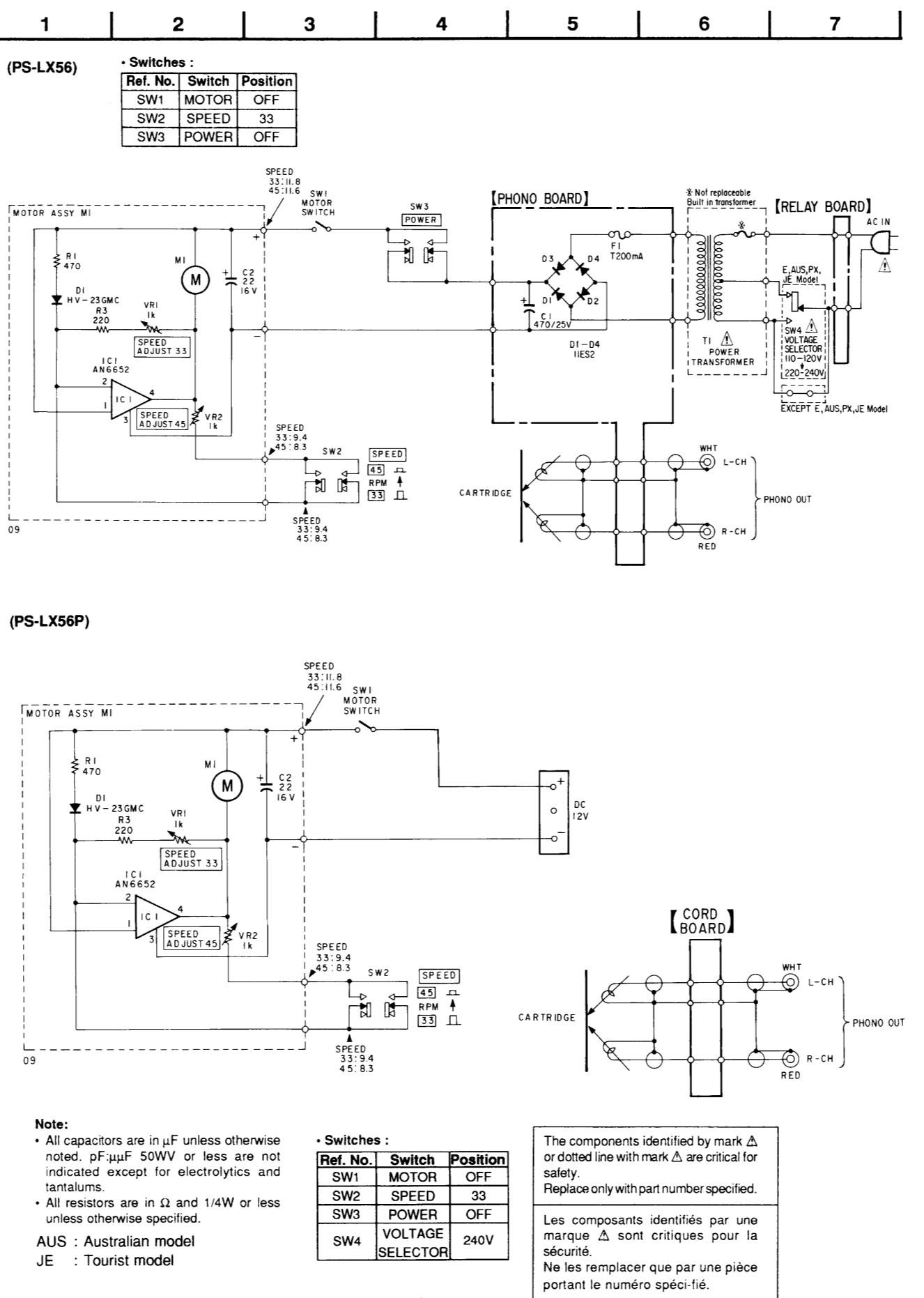
Use the supplied adaptor

If the tonearm moves outward when you move it close to the centre

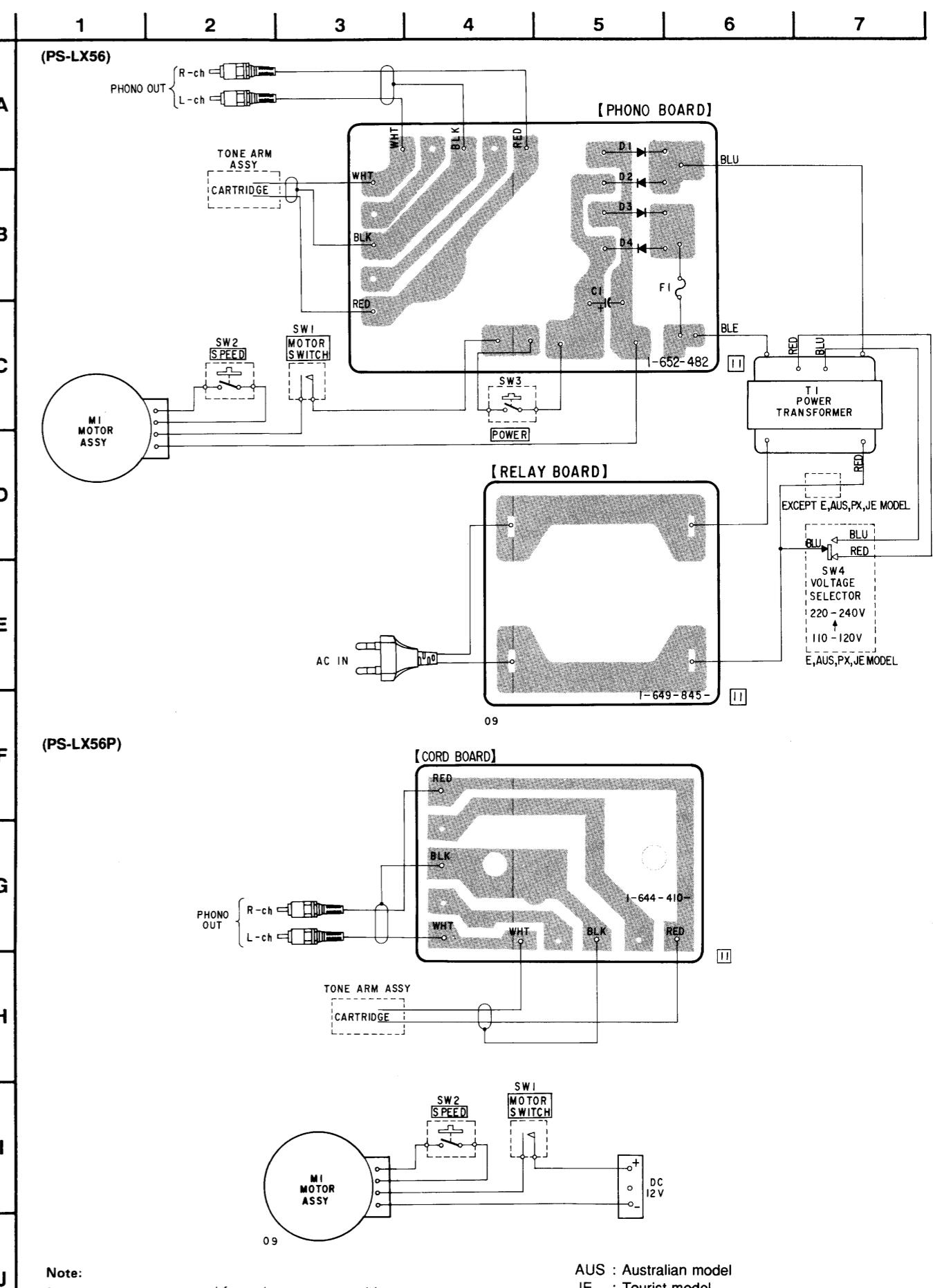
Do not resist this movement, as it may damage the automatic return mechanism.

If the tonearm does not return to its armrest
Press REJECT.

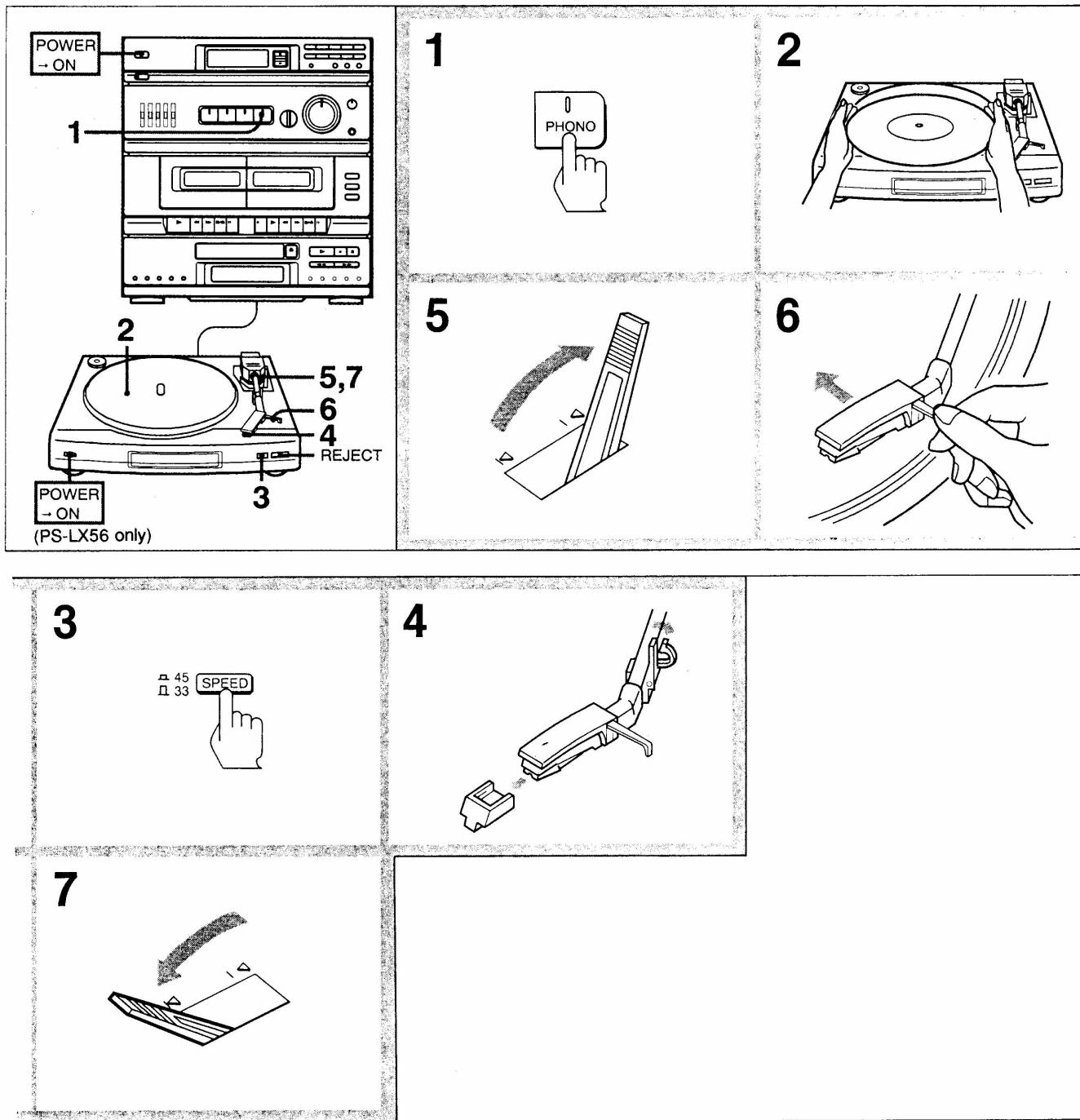
SCHEMATIC DIAGRAMS



WIRING DIAGRAMS



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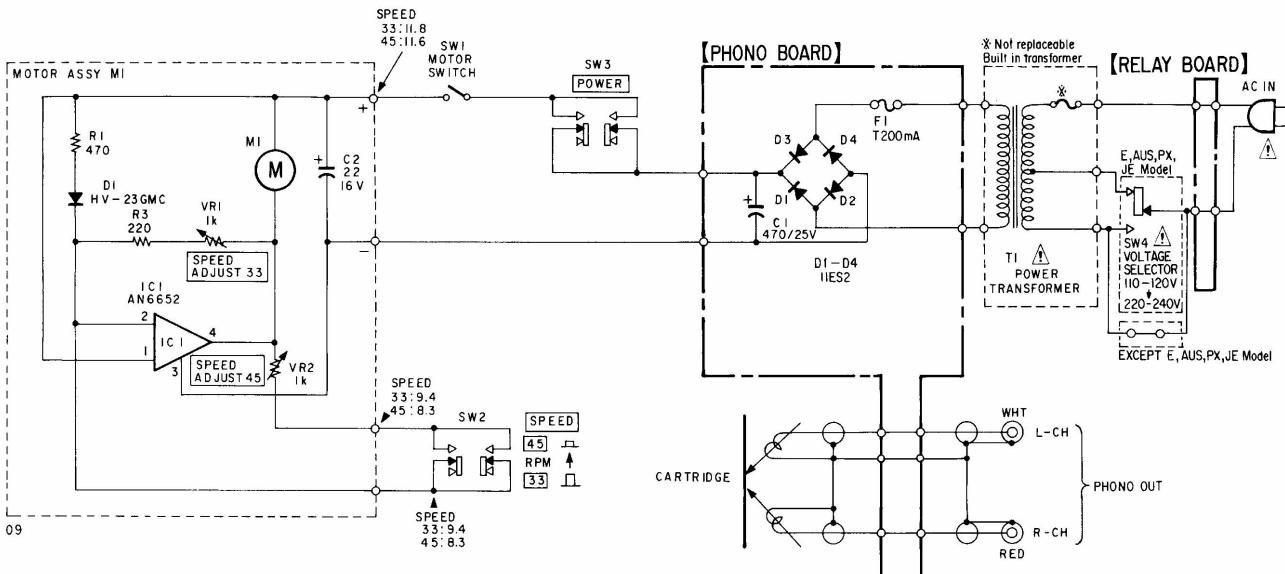
SCHEMATIC DIAGRAMS

1 2 3 4 5 6 7

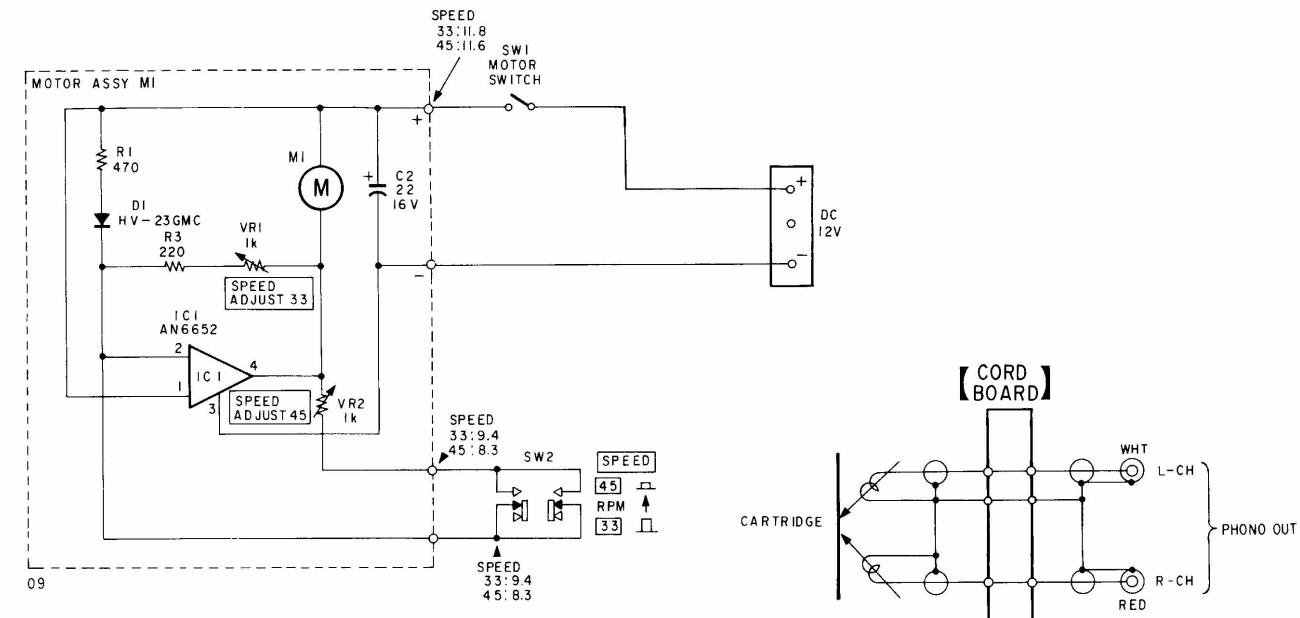
(PS-LX56)

• Switches :

Ref. No.	Switch	Position
SW1	MOTOR	OFF
SW2	SPEED	33
SW3	POWER	OFF



(PS-LX56P)



Note:

- All capacitors are in μF unless otherwise noted. $\text{pF}:\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.

AUS : Australian model

JE : Tourist model

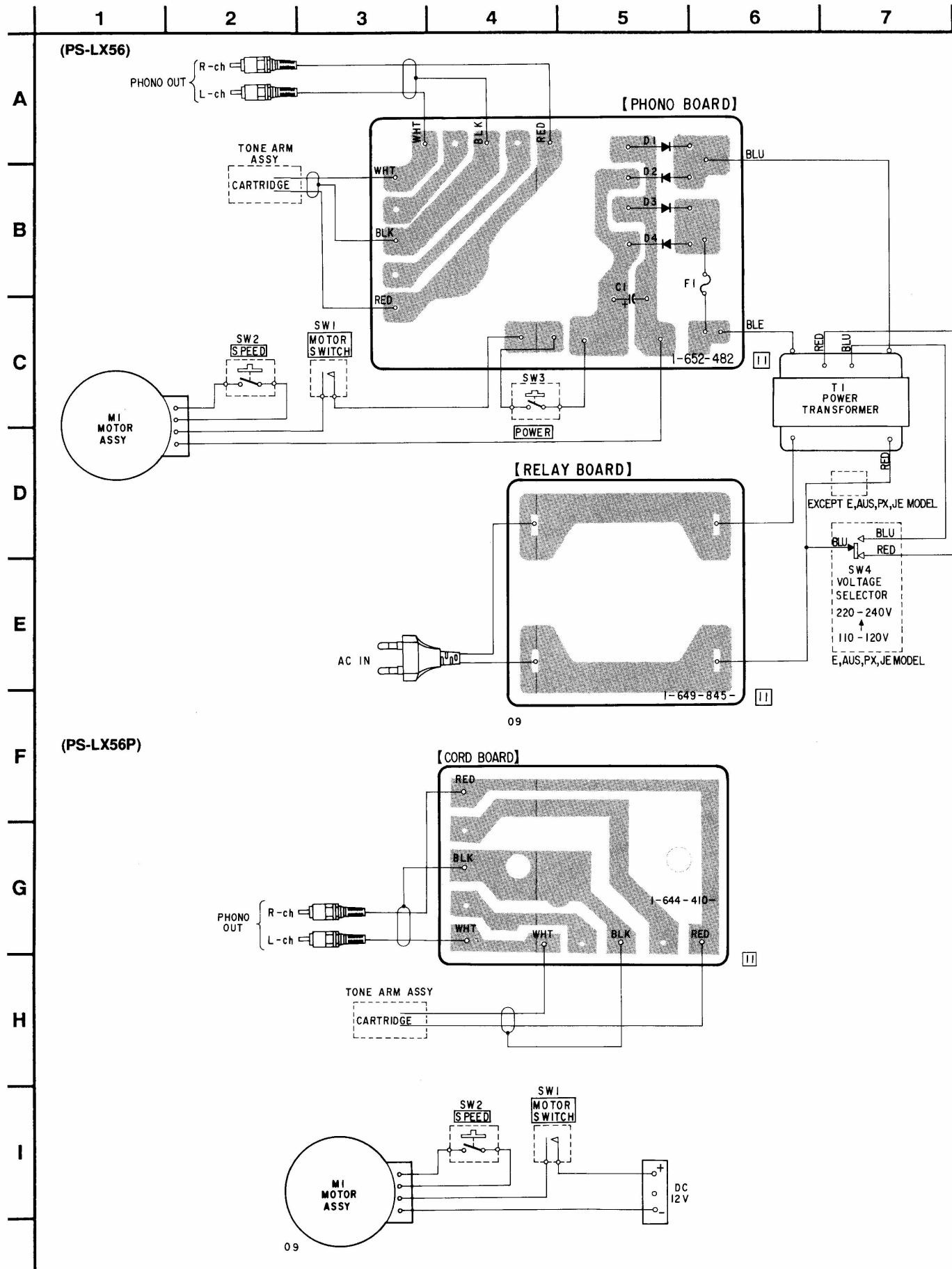
• Switches :

Ref. No.	Switch	Position
SW1	MOTOR	OFF
SW2	SPEED	33
SW3	POWER	OFF
SW4	VOLTAGE SELECTOR	240V

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

WIRING DIAGRAMS



AUS : Australian model
JE : Tourist model

CORD PHONO RELAY

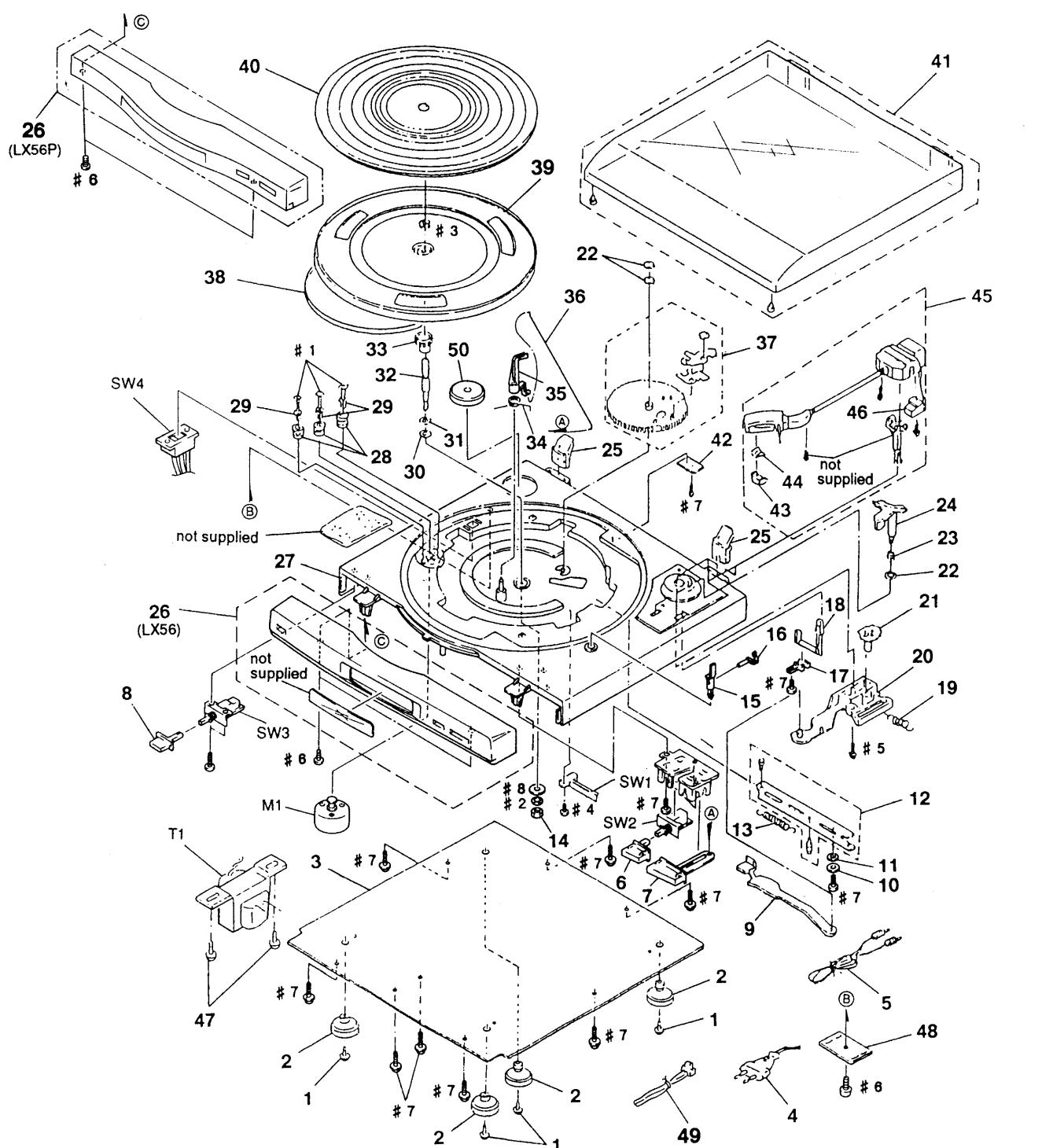
EXPLODED VIEW

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- AUS : Australian model
 CND : Canadian model
 EE : East European model
 IT : Italian model
 MX : Mexican model
 EA : Saudi Arabia model
 SP : Singapore model
 MY : Malaysia model
 JE : Tourist

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Les remplacer que par une pièce portant le numéro spécifié.



Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
4-950-497-01	FOOT SEAT		39	4-947-494-01	TURNTABLE PLATTER	
4-950-490-01	PLASTIC STAND		40	4-947-539-01	RUBBER MAT	
4-961-804-01	BUTTON BOARD		41	A-4604-946-A	DUST COVER ASSY	
4-575-651-61	CORD, AC (LX56: AEP, EA, EE, IT, MX, MY, CIS, SP)		* 42	1-652-482-11	PHONO BOARD (LX56)	
4-575-975-11	CORD, AC (LX56: CND, US)		* 42	1-644-410-11	CORD BOARD (LX56P)	
-590-074-11	CORD, AC (LX56: E)		43	4-948-095-01	COVER, CARTRIDGE	
-690-608-11	CORD, AC (LX56: AUS)		44	4-951-290-01	STYLUS (CN-234)	
-696-570-21	CORD, AC (LX56: UK)		45	A-4604-940-A	ARM ASSY, TONE	
-555-116-11	CORD, PHONO...(BLACK)		46	4-947-464-01	COUNTER WEIGHT	
4-964-177-01	KNOB SPEED...(BLACK)		47	4-952-961-01	SCREW (LX56)	
4-964-177-11	KNOB SPEED		* 48	1-649-845-11	RELAY BOARD (LX56)	
	... (LX56: SILVER, SILVER METALLIC)		49	1-557-109-21	CORD, DC (LX56P)	
4-964-178-01	KNOB REJECT...(BLACK)		50	3-701-806-00	ADAPTOR, 45	
4-964-178-11	KNOB REJECT		M1	A-4604-945-A	MOTOR ASSY	
	... (LX56: SILVER, SILVER METALLIC)		SW1	1-570-666-11	SWITCH (LEAF)	
4-964-184-01	KNOB POWER (LX56: BLACK)		SW2	1-571-089-11	SWITCH, PUSH (SPEED) (1 KEY)	
4-964-184-11	KNOB POWER		SW3	1-692-211-11	SWITCH, PUSH (POWER) (1 KEY) (LX56)	
	... (LX56: SILVER, SILVER METALLIC)		△SW4	1-692-835-11	VOLTAGE SELECTOR (LX-56: AUS, E, MX, MY, SP)	
4-947-487-01	RETURN LINK		△T1	1-450-987-11	TRANSFORMER, POWER (LX56: AEP, EE, IT, CIS)	
4-890-173-00	WASHER		△T1	1-450-987-21	TRANSFORMER, POWER	
3-659-350-00	WASHER				(LX56: AUS, E, PX, EA, JE, MX, SP)	
4-4604-947-A	RETURN ASSY, LEVER		△T1	1-450-987-31	TRANSFORMER, POWER (LX56: MY)	
4-947-485-01	SPRING (22)		△T1	1-450-987-41	TRANSFORMER, POWER (LX56: U, CA)	
4-947-510-01	NUT					
4-947-491-01	ARM REST					
4-4660-499-A	ARM CLIP ASSY					
4-947-477-01	CUEING (BASE)					
4-947-468-01	LEVER, CUEING					
4-963-537-01	SPRING					
4-963-536-01	LINK RETURN					
4-963-535-01	ADJUST CAM					
4-947-514-01	4MM CS RING					
4-947-467-01	SPRING (6)					
4-947-466-01	TONE ARM ELEVATOR					
4-4660-498-A	HINGE ASSY					
4-4384-982-A	PANEL (B) ASSY, FRONT (LX56: SILVER)					
4-4411-941-A	PANEL (B) ASSY, FRONT					
	(LX56: SILVER METALLIC)					
4-4660-577-A	FRONT PANEL (G) ASSY (LX56: GRAY) (US)					
4-4660-578-A	FRONT PANEL (G) ASSY (LX56: BLACK)					
4-4660-976-A	FRONT PANEL (G) ASSY (LX56P)					
4-950-487-01	MAIN CABINET (B)...(BLACK)					
4-950-487-11	MAIN CABINET (B)					
	... (LX56: SILVER, SILVER METALLIC)					
4-947-505-01	CUSHION MOTOR					
4-947-504-01	COLLAR					
4-451-162-00	WASHER (56)					
4-701-445-21	WASHER					
4-947-498-01	STELL BALL					
4-947-497-01	GEAR					
4-947-496-01	SPRING (34)					
4-947-495-01	WIPER REJECT					
4-948-101-01	SPRING (38)					
4-4604-916-A	GEAR ASSY, SPUR					
4-947-502-01	BELT					

ELECTRICAL PARTS LIST

NOT

- ue to standardization, replacements in the parts set may be different from the parts specified in the diagrams or the components used on the set. X, -X mean standardized parts, so they may have some difference from the original one.

RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor
nonflammable

Items marked "*" are not stocked since they are seldom required for routine service. Some delay would be anticipated when ordering these items.

Hardware (# mark) list is given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety.
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*	1-644-410-11	CORD BOARD (LX56P)				ACCESSORIES & PACKING MATERIALS	
	*****					*****	

*	1-652-482-11	PHONO BOARD (LX56)			3-758-045-11	MANUAL INSTRUCTION	
	*****				(English, French, Spanish, Portuguese) (LX56 AEP, CND)		
		< CAPACITOR >			3-758-045-21	MANUAL INSTRUCTION (English) (LX56 US, UK)	
C1	1-126-012-11	ELECT	470uF	16V	3-758-045-41	MANUAL INSTRUCTION	
					(German, Dutch, Swedish, Italian) (LX56 AEP, IT)		
		< DIODE >			3-758-045-51	MANUAL INSTRUCTION	
D1	8-719-200-82	DIODE	11ES2			(English, French, Spanish, Chinese)	
D2	8-719-200-82	DIODE	11ES2			(LX56 AUS, E, PX, MX, EA, MY, SP, JE)	
D3	8-719-200-82	DIODE	11ES2		3-758-045-61	MANUAL INSTRUCTION	
D4	8-719-200-82	DIODE	11ES2			(English, German, Polish) (LX56 EE, CIS)	
		< FUSE >					
△F1	1-532-613-XX	FUSE TIME-LAG (T200mA)					

*	1-649-845-11	RELAY BOARD (LX56)				*****	
	*****					HARDWARE LIST	

#1	7-621-773-87	SCREW (64)					
#2	7-623-210-22	WASHER (57)					
#3	7-624-110-04	6MM E RING					
#4	7-685-105-01	SCREW (59)					
#5	7-685-645-79	SCREW (68)					
#6	7-685-646-79	SCREW (60)					
#7	7-685-647-79	SCREW (58)					

EXPLODED VIEW

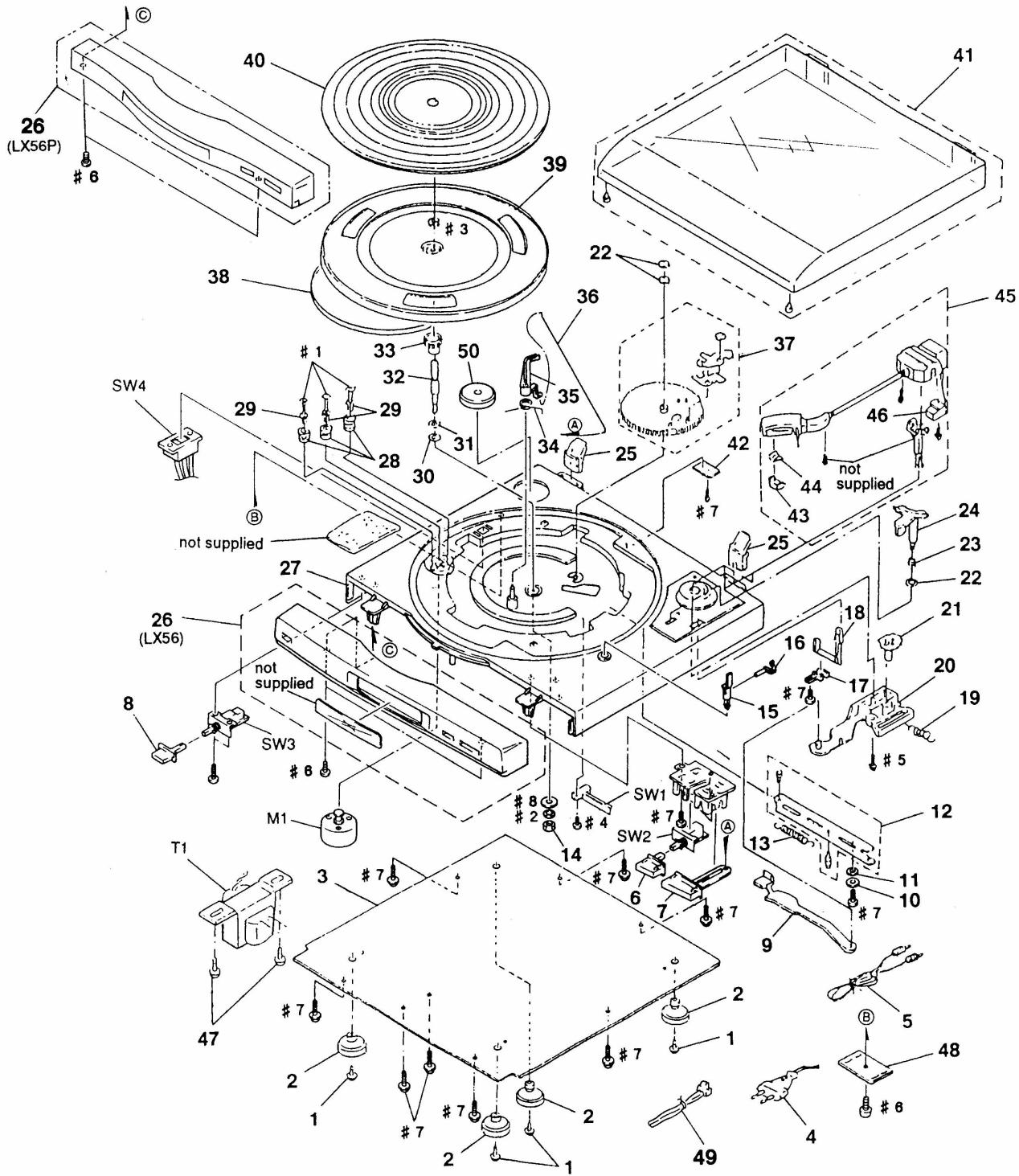
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2	4-950-490-01	PLASTIC STAND		40	4-947-539-01	RUBBER MAT	
* 3	4-961-804-01	BUTTON BOARD		41	A-4604-946-A	DUST COVER ASSY	
△4	1-575-651-61	CORD, AC (LX56: AEP, EA, EE, IT, MX, MY, CIS, SP)		* 42	1-652-482-11	PHONO BOARD (LX56)	
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△4	1-690-608-11	CORD, AC (LX56: AUS)		44	4-951-290-01	STYLUS (CN-234)	
△4	1-696-570-21	CORD, AC (LX56: UK)		45	A-4604-940-A	ARM ASSY, TONE	
5	1-555-116-11	CORD, PHONO...(BLACK)		46	4-947-464-01	COUNTER WEIGHT	
6	4-964-177-01	KNOB SPEED...(BLACK)		47	4-952-961-01	SCREW (LX56)	
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7	4-964-178-11	KNOB REJECT		M1	A-4604-945-A	MOTOR ASSY	
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8	4-964-184-11	KNOB POWER		SW3	1-692-211-11	SWITCH, PUSH (POWER) (1 KEY) (LX56)	
		...(LX56:SILVER, SILVER METALLIC)		△SW4	1-692-835-11	VOLTAGE SELECTOR (LX-56: AUS, E, MX, MY, SP)	
9	4-947-487-01	RETURN LINK		△T1	1-450-987-11	TRANSFORMER, POWER (LX56: AEP, EE, IT, CIS)	
10	4-890-173-00	WASHER		△T1	1-450-987-21	TRANSFORMER, POWER	
11	3-659-350-00	WASHER					(LX56: AUS, E, PX, EA, JE, MX, SP)
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15	4-947-491-01	ARM REST					
16	A-4660-499-A	ARM CLIP ASSY					
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20	4-963-536-01	LINK RETURN					
21	4-963-535-01	ADJUST CAM					
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* 27	4-950-487-11	MAIN CABINET (B)					
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29	4-947-504-01	COLLAR					
30	3-451-162-00	WASHER (56)					
31	3-701-445-21	WASHER					
32	4-947-498-01	STELL BALL					
33	4-947-497-01	GEAR					
34	4-947-496-01	SPRING (34)					
35	4-947-495-01	WIPER REJECT					
36	4-948-101-01	SPRING (38)					
37	A-4604-916-A	GEAR ASSY, SPUR					
38	4-947-503-01	BELT					

CORD PHONO RELAY

ELECTRICAL PARTS LIST

NOTE:

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METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
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- Hardware (# mark) list is given in the last of this parts list.

• SEMICONDUCTORS

In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...

• CAPACITORS

uF: μ F

• COILS

uH: μ H

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- CND : Canadian model
- EE : East European model
- IT : Italian model
- MX : Mexican model
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*	1-644-410-11	CORD BOARD (LX56P)	*****			ACCESSORIES & PACKING MATERIALS	*****

*	1-652-482-11	PHONO BOARD (LX56)	*****			3-758-045-11 MANUAL INSTRUCTION (English, French, Spanish, Portuguese) (LX56 AEP, CND)	

			< CAPACITOR >			3-758-045-21 MANUAL INSTRUCTION (English) (LX56 US, UK)	
C1	1-126-012-11	ELECT	470uF	16V		3-758-045-41 MANUAL INSTRUCTION (German, Dutch, Swedish, Italian) (LX56 AEP, IT)	
< DIODE >							
D1	8-719-200-82	DIODE	11ES2		*	3-758-045-51 MANUAL INSTRUCTION (English, French, Spanish, Chinese) (LX56 AUS, E, PX, MX, EA, MY, SP, JE)	
D2	8-719-200-82	DIODE	11ES2		*	3-758-045-61 MANUAL INSTRUCTION (English, German, Polish) (LX56 EE, CIS)	
D3	8-719-200-82	DIODE	11ES2			*****	
D4	8-719-200-82	DIODE	11ES2			HARDWARE LIST	*****
< FUSE >							
\triangle F1	1-532-613-XX	FUSE TIME-LAG (T200mA)	*****		#1	7-621-773-87 SCREW (64)	
*****					#2	7-623-210-22 WASHER (57)	
*	1-649-845-11	RELAY BOARD (LX56)	*****		#3	7-624-110-04 6MM E RING	
*****					#4	7-685-105-01 SCREW (59)	
					#5	7-685-645-79 SCREW (68)	
					#6	7-685-646-79 SCREW (60)	
					#7	7-685-647-79 SCREW (58)	
					#8	7-688-005-01 WASHER (69)	

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.

Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.